

Metabolomic analysis of Micafungin as a Potential Quorum Sensing Inhibitor against

Pseudomonas aeruginosa

Duaa M. Hijazi¹, Lina A. Dahabiyeh^{1,*}, Salah Abdelrazig^{2,3}, Dana A. Alqudah⁴, Amal G. Al-Bakri^{5,*}

¹Department of Pharmaceutical Sciences, School of Pharmacy, The University of Jordan, Amman, 11942, Jordan.

²Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Khartoum, P.O. Box 1996, Khartoum 11115, Sudan.

³Centre for Analytical Bioscience, Advanced Materials and Healthcare Technologies Division, School of Pharmacy, University of Nottingham, Nottingham NG7 2RD, U.K.
ORCID: orcid.org/0000-0001-6231-1267.

⁴Cell Therapy Center, The University of Jordan, Amman 11942, Jordan.

⁵Department of Pharmaceutics and Pharmaceutical Technology, School of Pharmacy, The University of Jordan, Amman, 11942, Jordan.

Corresponding authors:

Amal G. Al-Bakri

Department of Pharmaceutics and Pharmaceutical Technology, School of Pharmacy, The University of Jordan, Amman, 11942, Jordan

Email: agbakri@ju.edu.jo

Tel: +962-6 5355000 ext 23330

Fax: +962-6 5300250

ORCID: orcid.org/0000-0002-6299-5301

Lina A. Dahabiyeh

Department of Pharmaceutical Sciences, School of Pharmacy, The University of Jordan, Amman, 11942, Jordan

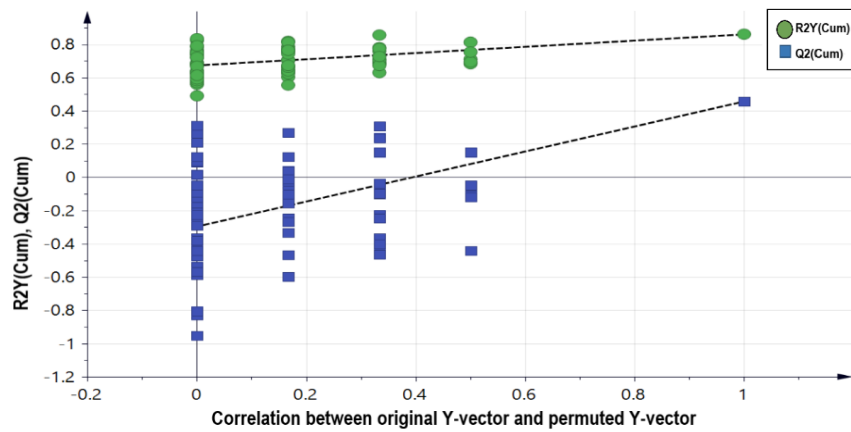
Email: l.dahabiyeh@ju.edu.jo

Tel: +962-6 5355000 ext 23306

Fax: +962-6 5300250

ORCID: orcid.org/0000-0002-4688-7052

(A)



(B)

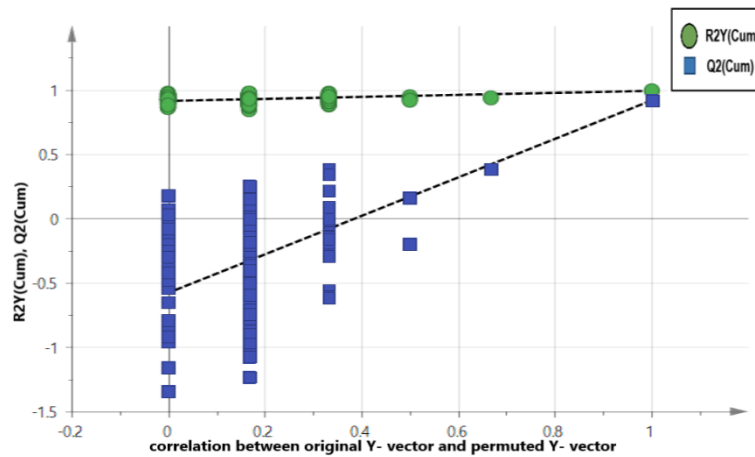


Figure. S1 Permutation tests for the statistical validation of the OPLS-DA models generated from *P. aeruginosa* samples treated with (A) micafungin 100 µg/mL and (B) azithromycin, 8 µg/mL compared to control. A permutation test was performed with 100 random permutations. Predictability Q² (blue squares) and variability R²Y (green circles) values from the permuted analysis (bottom left) are lower than those of the initially generated model (top right)